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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,336	09/08/2003	Toshiaki Tsuda	Q77365	9220	
65565 7590 02/02/2007 EXAMINI					
2100 PENNSYLVANIA AVE. NW			GUHARAY, KARABI		
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER	
		•	2879		
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	02/02/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/656,336	TSUDA ET AL.				
		Examiner	Art Unit				
		Karabi Guharay	2879				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		•					
1)⊠	Responsive to communication(s) filed on Amer	ndment filed on 11 October 2006	·				
·	This action is FINAL . 2b) ☐ This action is non-final.						
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	Claim(s) <u>1-7</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6) Claim(s) 1-7 is/are rejected.						
-	Claim(s) is/are objected to.			•			
·	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
	The specification is objected to by the Examine						
	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) ☐ acce		Evaminer				
ساره،							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•	ınder 35 U.S.C. § 119		,	. 0 102.			
•	Acknowledgment is made of a claim for foreign	priority under 25 LLS C & 110(c)	(d) or (f)				
_		priority under 35 0.5.C. § 119(a)	-(a) or (i).				
a) _k	a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No 2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
		·					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:							

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Response to Amendment

Amendment, filed on 11October 2006 has been considered and entered.

Claims 1, 3-4 & 6 are amended.

New claim 7 is added.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Jackson et al. (US 6861805).

Regarding claimS 1 & 4-5, Jackson et al. disclose an arc tube (20 of Fig 9) for a discharge bulb in which both ends of the light emitting tube inserting electrodes respectively are sealed and a close space having the electrodes opposed to each other and filled with a light emitting substance with a rare gas is provided in the light emitting tube (lines 36-50 of column 4), wherein the light emitting tube comprises translucent ceramic formed substantially cylindrically and has a ratio of outside diameter d to a whole length L (d/L) ranging from 0.2-0.5, (lines 57-65 of column 4 & lines 16-17 of column 5), wherein both end of the light emitting tube are sealed by Mo-pipes (34, 44 made of molybdenum) in which the electrodes (30,35: 40, 45) are fixed and held

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respectively, wherein each of the electrodes is formed by integrating a tungsten line (30, 40) and a molybdenum line (35, 45) with an end of the tungsten line opposed to an end of the molybdenum line, wherein the molybdenum line (35, 45) is welded to one of the molybdenum pipe (34, 44, see Fig 9, lines 51-56 of column 4).

Regarding claim 2, Jackson et al. disclose that the light emitting tube has a thickness of 0.25 mm to 1.2 mm (lines 16-17 of column 5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson et al. (US 6861805).

Regarding claim 7, Jackson et al. teaches all the limitations of claim 7, except for the claimed range of outside diameter and claimed range of length of the arc tube.

However, Jackson teaches that dimensions of the arc tube are determined by desired lamp power (lines 2-11 of column 7).

Thus it would have been obvious to one having ordinary skill in the art at the time the invention was made to experiment the design parameters to claimed range since optimization of prior art structure is within the skill of art.

Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jackson et al, as claimed in claim 1, in view of Uchiyama et al (EP 0859246).

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In regards to claims 3 and 6, Jackson et al. discloses all the limitations of claims 3 & 6 (see rejection of claim 1 & 4) except for the limitation of that the light emitting tube has a parallel ray transmittance of 20% of less and a whole ray transmittance of 85% or more.

Uchiyama et al (EP 0859246) teach a light-emitting tube (paragraph 48) that has a parallel ray transmittance of 20% of less (see figure 6) and a whole ray transmittance of 85% or more (paragraphs 46) in order to improve the viewing angle of the device (paragraph 1). Hence, it would have been obvious at the time of the invention to one of ordinary skill in the art to modify the arc tube of Jackson et al. with the transmittance of Uchiyama et al. since this will improve the viewing angle of the device.

Response to Arguments

Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

Other Prior Art Cited

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Heider et al. (US 5810635); Juengst et al. (US 5484315).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is 571-272-2452. The examiner can normally be reached on Monday-Friday 9:00 am - 5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kghhasay Karabi Guharay Primary Examiner Art Unit 2879